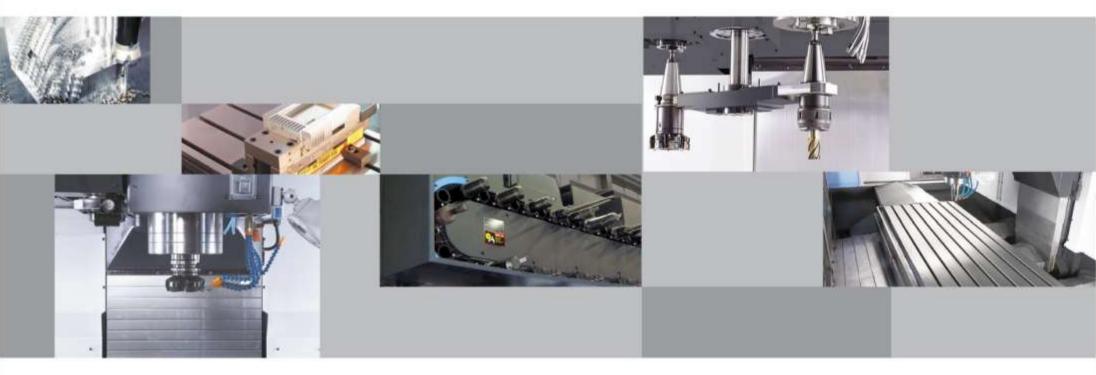


VM 560

Heavy Duty Vertical Machining Center



Heavy Duty Vertical Machining Center



Powerful vertical machining center VM 560 is built to world-class standards to assure world-class results. Powerful drives, heavy duty construction, and unsurpassed rigidity provide exceptional precision and years of trouble-free performance.



Speed Spindle

VM 560 series

High speed spindle of high quality and rigidity helps increase the efficiency and performance of the machine.



Speed Spindle

Built-in type

The built-in spindle motor and high grade balancing technology have virtually eliminated any vibration which deteriorate surface quality. The spindle is driven by a high power 22 kW (30 Hp) A.C. motor delivering an impressive 204 N·m (150.6 ft-lbs) torque.

Max. spindle speed

12000 r/min

Motor (continuous/15min)

18.5/22 kW (25/30 Hp)

Oil mist lubrication

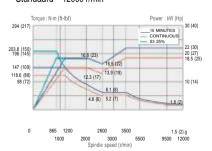


Minimized Non Cutting Time

Faster tool change time using cam increases productivity than previous model.

Spindle power-torque diagram

Standaard - 12000 r/min





Automatic tool changer

Tool storage capacity

30 tools

04 Heavy Duty Vertical Machining Center



Tool magazine

The 30 station, automatic tool changer accepts 50 taper tooling with a maximum tool weight of 15 kg (33.1 lb). Its reliable double-arm system provides 3.0 second tool-to-

Tool change time (T-T-T)

3.0 s

Mechanical Structure

Strong structure and powerful processing capability!

Structure of doosan's processing know-how!

It adopts the highly durable and wide bed slide side with deep and high frequency heat treatment and allows stable transport and processing with wide z-axis slide and wide support of y-axis.



Rigid boxway type

It offers quick and powerful location control by adopting the rigid boxway type guide and double-anchor support, high accuracy and large diameter ball screw.



| t | f | (9.1 inch) when adjacent pockets are empty. Tool |
|-------|-------------|---|
| 0 | · | loading positions are easily accessible, and movement |
| | 1 | of the bidirectional magazine can be manually |
| 0 | | or the bidhectional magazine can be mandally |
| I | 2 | controlled. |
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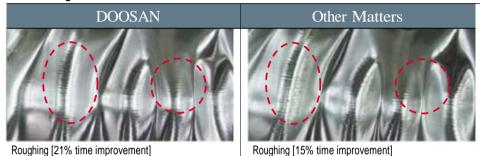
m

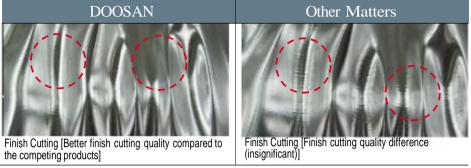
Doosan's Exclusive [DSQ] High Speed Precision Processing

DSQ-Xplus improves productivity and molding processing quality by allowing individual tuning customized to the machine, high speed processing of the large capacity program, and enhanced order complying capability on the basis of stable structure of Doosan VM Series.

Machining condition selection

Actual Application

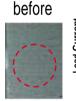


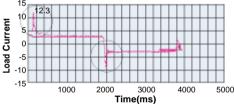


• By allowing the selection of the final processing condition, the processing quality and time are improved

Weight balancer

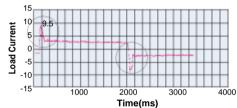
Maintenance of Uniform Molding Processing Quality by Automatically Detecting the Part Weight





Generation of wave pattern on the processing surface with vibration at the processing beginning point / Long lasting servo current change excitation





Uniform brightness on the processing surface by applying Weight Balancer function / Reduced servo current change excitation

Oil Cooler Unit



Oil cooler unit to maintain the best spindle.

- Thermal displacement of the mandrel is minimized at the highest rotational speed (after 30 min. pre-heating)
- Since the oil jacket around the mandrel and heat generation parts of all moving units have the forced circulation of cooling lubricant of the oil cooling system, the whole mandrel maintains the uniform temperature to ensure high precision even during the high speed rotation.
- Temperature control within deviation of ±0.1° is offered through the method of stopping the cooler using Daikin inverter oil-cooler and temperature control using other flow rate control.

Eco friendly & ergonomic



To apply the magazine approaching foot hold, the toolsetting is easy and convenient.

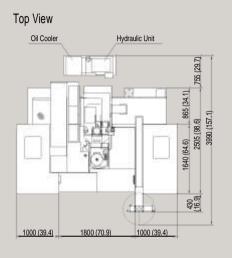


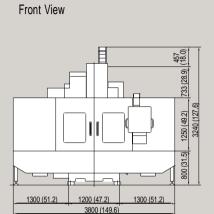
Arranged lublication and public pressures system in one place and improved an inspection and maintenace.

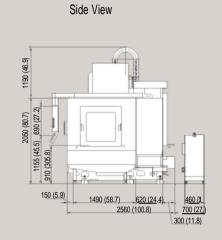
External Dimensions

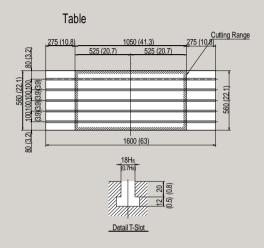
Unit: mm (inch)

VM 560





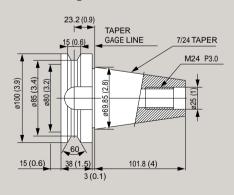


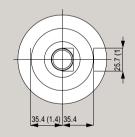


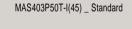
Tool Shank

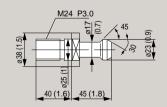
BT50

MAS403P BT 50 _ Standard

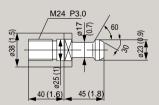








MAS403P50T-II(60) _ Option



Machine Specifications

| Features | | | | |
|---|----------------|---|--------------|-----------------------------------|
| Y-axis (cross movement of saddle) | | Features | | VM 560 |
| Travel Z-axis (vertical movement of spindle head) mm (in.) 560 (22.1) | | | | \ / |
| Distance from spindle nose to table top | | | \ / | (/ |
| Distance from spindle center to column guideway mm (in.) 600 (23.6) Table size mm (in.) 1600 x 560 (63 x 22.1) Table loading capacity kg (lb) 1500 (3306.9) Table surface 5-100 x 18H ₈ Max. spindle speed r/min 12000 Spindle taper ISO#507/24 Taper Max. spindle torque N-m (ft-lbs) 204 (150.6) Rapid traverse rate (X/Y/Z) m/min (ipm) 30/30/24 (1181.1/1181.1/944.9) Cutting feedrate mm/min (ipm) 12000 (472.4) Type of tool shank MAS403 BT50 Tool storage capacity 30 Max. tool diameter mm (in.) a125 (4.9) Max. tool diameter mm (in.) a230 (9.1) Max. tool diameter without adjacent tools mm (in.) 350 (13.8) Max. tool weight kg (lb) 15 (33.1) Method of tool selection memory Random Tool change time (tool-to-tool) s 3 Tool change time (chip-to-chip) s 6 Spindle motor (15min) kW (Hp) 22 (30) Feed motor (XYY/Z) kW (Hp) 4.0 / 4.0 / 7.0 (5.4 / 5.4 / 9.4) Power source Electric power supply (Rated Capacity) kVA 60 Compressed air supply Rated Capacity L (galon) 600 (158.5) Lubrication tank capacity L (galon) 3.1 (0.8) Machine height mm (in.) 3990 x 3800 (157.1 x 149.6) | Travel | | mm (in.) | () |
| Table Table size mm (in.) 1600 x 560 (63 x 22.1) Table loading capacity kg (lb) 1500 (3306.9) Table surface 5-100 x 18H₂ Max. spindle speed r/min 12000 Spindle laper ISO#507/24 Taper Max. spindle torque N-m (ft-lbs) 204 (150.6) Rapid traverse rate (X/Y/Z) m/min (ipm) 30/30/24 (1181.1/1181.1/944.9) Cutting feedrate mm/min (ipm) 12000 (472.4) Type of tool shank MAS403 BT50 Tool storage capacity 30 Max. tool diameter mm (in.) 425 (4.9) Max. tool diameter without adjacent tools mm (in.) 350 (13.8) Max. tool length mm (in.) 350 (13.8) Max. tool length mm (in.) 350 (13.8) Max. tool weight kg (lb) 15 (33.1) Method of tool selection Memory Random Tool change time (tool-to-tool) s 3 Tool change time (tool-to-tool) s 3 Tool change time (tool-to-tool) s 3 Tool | | Distance from spindle nose to table top | mm (in.) | 150 - 710 (5.9 - 28) |
| Table Table loading capacity kg (lb) 1500 (3306.9) Table surface 5-100 x 18H₂ Max. spindle speed r/min 12000 Spindle taper ISO#507/24 Taper Max. spindle torque N-m (ft-lbs) 204 (150.6) Rapid traverse rate (X/Y/Z) m/min (ipm) 30/30/24 (1181.1/1181.1/944.9) Cutting feedrate mm/min (ipm) 12000 (472.4) Type of tool shank MAS403 BT50 Tool storage capacity 30 Max. tool diameter mm (in.) #0125 (4.9) Max. tool length mm (in.) #0230 (9.1) Max. tool length mm (in.) #0230 (9.1) Max. tool length mm (in.) #0230 (9.1) Max. tool length mm (in.) #0230 (9.1) Max. tool length mm (in.) #0230 (9.1) Max. tool length mm (in.) #0230 (9.1) Max. tool length mm (in.) #0230 (9.1) Max. tool length kg (lb) 15 (33.1) Method of tool selection memory Random Tool change time (tool- | | Distance from spindle center to column guidev | vay mm (in.) | 600 (23.6) |
| Table surface | | Table size | mm (in.) | 1600 x 560 (63 x 22.1) |
| Max. spindle speed r/min 12000 | Table | Table loading capacity | kg (lb) | 1500 (3306.9) |
| Spindle Spindle taper | | Table surface | - | 5-100 x 18H₃ |
| Max. spindle torque | | Max. spindle speed | r/min | |
| Max. spindle torque | Spindle | Spindle taper | | ISO#50 7/24 Taper |
| Type of tool shank | | Max. spindle torque | N·m (ft-lbs) | |
| Type of tool shank | Ecodroto | Rapid traverse rate (X/Y/Z) | m/min (ipm) | 30/30/24 (1181.1/1181.1/944.9) |
| Type of tool shank | reediale | | mm/min (ipm) | |
| Automatic tool changer | | Type of tool shank | | MAS403 BT50 |
| Automatic tool changer Max. tool diameter without adjacent tools | | | | 30 |
| Max. tool length Max. tool length Max. tool weight Method of tool selection Memory Random | | Max. tool diameter | mm (in.) | ø125 (4.9) |
| tool changer Max. tool length Max. tool weight Method of tool selection Memory Random Tool change time (tool-to-tool) S 3 Tool change time (tool-to-chip) S 6 Motor Spindle motor (15min) kW (Hp) 22 (30) Feed motor (XY/Z) kW (Hp) 4.0 / 4.0 / 7.0 (5.4 / 5.4 / 9.4) Electric power supply (Rated Capacity) kVA 60 Compressed air supply Mpa (ps) 0.54 (78.3) Coolant tank capacity L (galon) 600 (158.5) Lubrication tank capacity L (galon) 3.1 (0.8) Machine height mm (in.) 3240 (127.6) Machine dimension (Lx W) mm (in.) 3990 x 3800 (157.1 x 149.6) | Automatic | Max. tool diameter without adjacent tools | mm (in.) | ø230 (9.1) |
| Max. tool weight Method of tool selection Method of tool selection Memory Random | , 10101110110 | Max. tool length | mm (in.) | 350 (13.8) |
| Method of tool selection | tool changer | | kg (lb) | 15 (33.1) |
| Tool change time (chip-to-chip) S 6 | | Method of tool selection | • | Memory Random |
| Motor Spindle motor (15min) kW (Hp) 22 (30) Feed motor (X/Y/Z) kW (Hp) 4.0 / 4.0 / 7.0 (5.4 / 5.4 / 9.4) Power source Electric power supply (Rated Capacity) kVA 60 Compressed air supply Mpa (psi) 0.54 (78.3) Coolant tank capacity L (galon) 600 (158.5) Lubrication tank capacity L (galon) 3.1 (0.8) Machine height mm (in.) 3240 (127.6) Machine dimension (L x W) mm (in.) 3990 x 3800 (157.1 x 149.6) | | Tool change time (tool-to-tool) | S | 3 |
| Power source Electric power supply (Rated Capacity) kW (Hp) 4.0 / 4.0 / 7.0 (5.4 / 5.4 / 9.4) | | Tool change time (chip-to-chip) | S | 6 |
| Power source Electric power supply (Rated Capacity) kW (Hp) 4.0 / 4.0 / 7.0 (5.4 / 5.4 / 9.4) | Motor | Spindle motor (15min) | kW (Hp) | 22 (30) |
| Compressed air supply Mpa (psi) 0.54 (78.3) | IVIOLOI | Feed motor (X/Y/Z) | kW (Hp) | 4.0 / 4.0 / 7.0 (5.4 / 5.4 / 9.4) |
| Compressed air supply Mpa (psi) 0.54 (78.3) | Dower course | Electric power supply (Rated Capacity) | kVA | 60 |
| Tank capacity Coolant tank capacity L (galon) 600 (158.5) Lubrication tank capacity L (galon) 3.1 (0.8) Machine height mm (in.) 3240 (127.6) Machine size Machine dimension (L x W) mm (in.) 3990 x 3800 (157.1 x 149.6) | Fower Source | Compressed air supply | Mpa (psi) | 0.54 (78.3) |
| Lubrication tank capacity L (galon) 3.1 (0.8) Machine height mm (in.) 3240 (127.6) Machine size Machine dimension (Lx W) mm (in.) 3990 x 3800 (157.1 x 149.6) | Tank canacity | | L (galon) | 600 (158.5) |
| Machine height mm (in.) 3240 (127.6) | Talik Capacity | | | |
| Machine size Machine dimension (L x W) mm (in.) 3990 x 3800 (157.1 x 149.6) | | | . , | 3240 (127.6) |
| | Machine size | Machine dimension (L x W) | mm (in.) | 3990 x 3800 (157.1 x 149.6) |
| | | | kg (lb) | |

Standard Feature

| • / | Asser | mbly | & | operation | too |
|-----|-------|------|---|-----------|-----|
| | | 1 | | | |

- Automatic power off
- Coolant tank & chip pan
- Full enclosure splash guard
- Installation parts

- Screw conveyor

· Work light

• Through-the-

Rotary table

spindle coolant system

- Oil cooler & spindle cooling system
- Operator call lamp
- Portable 3MPG

Optional Feature

- 4th axis preparation
- Automatic measuring system
 Automatic tool length
 measurement with sensor Chip conveyor
- Chip bucket
- Electric power transformer
 Flushing coolant
- Test bar
- Oil skimmer
- Design and specifications are subject to change without notice. Doosan is not responsible for difference between the information in the catalogue and the actual machine.

NC Unit Specifications (FANUC 18i-MB)

| - Controlled axes | 3 (X, Y, Z |
|--|--------------------------------|
| - Simultaneously controllable axes | J (A, 1, 2 |
| Positioning (G00)/Linear in | ternolation(G01) · 3 ave |
| Circular internola | ation (G02, G03): 2 axe |
| - Backlash compensation | MIOTI (002, 000) . 2 WA |
| - Emergency stop / overtravel | |
| - Follow up | |
| - Least command increment : | 0.001mm / 0.0001 |
| - Least input increment : | 0.001mm / 0.0001 |
| - Machine lock | all axes / Z axis |
| - Mirror image | |
| Reverse axis movement (setting | screen and M - function |
| - Stored pitch error compensation | |
| | mpensation for each axi |
| - Stored stroke check 1 Overtray | vel controlled by softwar |
| | , |
| INTERPOLATION & FEED FUNCTION | ON |
| - 2nd reference point return | G3 |
| - Circular interpolation | G02, G03 |
| - Dwell | G0 |
| - Exact stop check | G09, G61(mode |
| - Feed per minute | mm / mii |
| - Feedrate override (10% increment | s) 0 - 200 % |
| - Jog override (10% increments) | 0 - 200 % |
| - Linear interpolation | G0 |
| - Manual handle feed 2/3 unit | |
| - Manual handle feedrate | 0.1/0.01/0.001mn |
| - Override cancel | M48 / M4 |
| - Positioning | G0 |
| | e feed), 25 / 50 / 100 9 |
| - Reference point return | G27, G28, G2 |
| - Skip function | G3 |
| - Helical interpolation | |
| - NANO AICC (Al Contour Control) | 80 block previe |
| - Thread cutting, synchronous cutting | ng |
| - Program restart | |
| - Automatic comer deceleration | |
| - Machine condition selection functi | on |
| - Feedrate clamp by circular radius | |
| - Linear ACC/DEC before interpolati | |
| - Linear ACC/DEC after interpolation | 1 |
| - Control axis detach | e /I I e |
| - Rapid traverse bell-shaped accele | ration/deceleration |
| - Smooth backlash compensation | |
| CONTRACTOR | |
| SPINDLE & M-CODE FUNCTION | Mora |
| - M- code function | M 3 digit |
| - Spindle orientation | |
| - Spindle serial output | OF -11-14 |
| Spindle speed command Spindle speed override (10% incre | S5 digit ements) 50 - 150 % |
| - Spinule Speed Override (10% Inch | illellis) 50 - 150 % |

- Spindle output switching

- Rigid tapping

- Retraction for rigid tapping

G84, G74

| TOOL FUNCTION | |
|--|-------|
| - Cutter compensation C G40, G41, G42 | -0 |
| | -0 |
| - Number of tool offsets 64 ea | - Pı |
| - Tool length compensation G43, G44, G49 | - Ri |
| - Tool number command T3 digits | - Se |
| - Tool life management | - Se |
| Geometry / Wear and Length / Radius offset memory | - Se |
| - Tool offset memory C | - Si |
| | - E) |
| PROGRAMMING & EDITING FUNCTION | - M |
| - Absolute / Incremental programming G90 / G91 | |
| - Auto. Coordinate system setting | OPT |
| - Background editing | - 3- |
| - Canned cycle G73, G74, G76, G80 - G89, G99 | - 3- |
| - Circular interpolation by radius programming | - 3r |
| - Custom macro B | - A |
| - Custom size 256kb | - Ac |
| - Decimal point input | - A |
| - I / O interface RS - 232C | |
| - Inch / metric conversion G20 / G21 | - HI |
| - Label skip | |
| - Local / Machine coordinate system G52 / G53 | - Al |
| - Maximum commandable value | |
| 99999.999mm(9999.9999 inch) | - Aı |
| - No. of Registered programs 200 ea | - CI |
| - Optional stop M01 | - C |
| - Part program storage 640 m | - Da |
| - Program number O4-digits | - D |
| - Program protect | |
| - Program stop / end M00 / M02, M30 | - Ex |
| - Programmable data input | - In |
| Tool offset and work offset are entered by G10, G11 | - EZ |
| - Sub program Up to 4 nesting | T |
| - Tape code ISO / EIA Automatic discrimination | - Ta |
| - Work coordinate system G54 - G59 | |
| - Additional work coordinate system (48 Pair) G54.1 P1 - 48 pairs | - Fi |
| | - IVI |
| - Coordinate system rotation G68, G69 | - n |
| Extended part program editing Optional angle chamfering / corner R | - In |
| - Macro executor | - Lo |
| - IVIACIO EXECUIOI | - M |
| OTHERS FUNCTIONS (Operation, Setting & Display, etc) | - No |
| - Alarm display | - N |
| - Alarm history display | - 0 |
| - Clock function | - Pa |
| - Cycle start / Feed hold | - PI |
| - Display of PMC alarm message | - Po |
| Message display when PMC alarm occurred | - Po |
| - Dry run | - Pı |
| - Ethernet function (Embeded) | - Re |
| - Graphic display Tool path drawing | - Si |
| - Help function | - St |
| - Loadmeter display | - To |
| - MDI / DISPLAY unit | - To |
| 9.5 mono LCD, Keyboard for data input, soft-keys | - Po |
| - Memory card interface | |
| , | |

| - Operation functions Tape | Memory / MDI / Manual |
|---|--|
| - Operation history display | ,,, |
| - Program restart | |
| Run hour and part number displa | |
| | ence NO. / Program NO. |
| - Self - diagnostic function | |
| - Servo setting screen | |
| - Single block | |
| - External data input | |
| - Multi language display | |
| OPTIONAL SPECIFICATIONS | |
| - 3-dimensional coordinate conver | sion |
| - 3-dimensional tool compensation | |
| - 3rd / 4th reference return | |
| - Addition of tool pairs for tool life r | nanagement 512 pairs |
| - Additional controlled axes max. 6 | |
| - Additional work coordinate syster | |
| Ğ. | 54.1 P1 - 300 (300 pairs) |
| - HPCC * (High Precision Contour C | Control) |
| Wi | th Risc180 block preview |
| - Al HPCC * (High Precision Contou | |
| | oit Risc600 block preview |
| - Automatic corner override | G62 |
| - Chopping function | G81.1 |
| - Cylindrical interpolation | G07.1 |
| - Data server | 0 00 |
| - Dynamic graphic display (w/10.4 | Color LCD) |
| | |
| Evpopontial interpolation | Machining profile drawing |
| - Exponential interpolation | , , , , , , , , , , , , , , , , , , , |
| - Interpolation type pitch error com | pensation |
| Interpolation type pitch error com EZ Guide i (Doosan infracore Conv | pensation ersational |
| Interpolation type pitch error com EZ Guide i (Doosan infracore Conv Programming Soluti | pensation |
| - Interpolation type pitch error com - EZ Guide i (Doosan infracore Conv Programming Soluti - Tape format for FS15 | pensation ersational |
| Interpolation type pitch error com EZ Guide i (Doosan infracore Conv | pensation ersational on) with 10.4 Color TFT |
| Interpolation type pitch error com EZ Guide i (Doosan infracore Conv Programming Soluti Tape format for FS15 Increment system 1/10 Figure copying | pensation ersational |
| Interpolation type pitch error com EZ Guide i (Doosan infracore Conv Programming Soluti Tape format for FS15 Increment system 1/10 Figure copying Manual handle feed (1 unit) | pensation ersational on) with 10.4 Color TFT |
| Interpolation type pitch error com EZ Guide i (Doosan infracore Conv Programming Soluti Tape format for FS15 Increment system 1/10 Figure copying | pensation ersational on) with 10.4 Color TFT |
| Interpolation type pitch error com EZ Guide i (Doosan infracore Conv | pensation ersational on) with 10.4 Color TFT |
| - Interpolation type pitch error com - EZ Guide i (Doosan infracore Conv Programming Soluti - Tape format for FS15 - Increment system 1/10 - Figure copying - Manual handle feed (1 unit) - Handle interruption - High speed skip function - Involute interpolation - Look ahead control | pensation ersational on) with 10.4 Color TFT G72.1, G72.2 |
| - Interpolation type pitch error com - EZ Guide i (Dossan infracore Conv - Programming Solut - Tape format for FS15 - Increment system 1/10 - Figure copying - Manual handle feed (1 unit) - Handle interruption - High speed skip function - Involute interpolation - Look alead control - Machining time stamp function | pensational ersational on) with 10.4 Color TFT G72.1, G72.2 G02.2, G03.2 G08 |
| - Interpolation type pitch error com - EZ Guide i (Dossa infracore Conv - Programming Solut - Tape format for FS15 - Increment system 1/10 - Figure copying - Manual handle feed (1 unit) - Handle interruption - High speed skip function - Involute interpolation - Look ahead control - Machining time stamp function - No. of Registered programs | G72.1, G72.2 G02.2, G03.2 G08 400 / 1000 ea |
| - Interpolation type pitch error com - EZ Guide i (Doosan infracore Conv - Programming Soluti - Tape format for FS15 - Increment system 1/10 - Figure copying - Manual handle feed (1 unit) - Handle interruption - High speed skip function - Involute interpolation - Look ahead control - Macchining time stamp function - No. of Registered programs - Number of tool offsets 2 | G72.1, G72.2 G02.2, G03.2 G08 400 / 1000 ea 00 / 400 / 499 / 999 ea |
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VM 560

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